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1. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

2. DMEA152-001: Rapid Non-destructive Detection of Advanced Counterfeit Electronic Material

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Counterfeit and subversively modified electronic components represent a substantial threat to Department of Defense (DoD) systems. Testimony to the Senate Armed Services Committee (SASC) concluded that “the scope and impact of counterfeits is not known … counterfeit electronic parts can compromise performance and reliability, risk national security, and endanger the safety of military personne ...

SBIR Department of Defense

3. DMEA152-002: Analysis of Integrated Circuits Using Limited X-rays

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The DARPA TRUST program established the potential usefulness of using an X-Ray microscope to analyze ICs at a synchrotron. We would like to further that development using a lab based X-Ray source. When utilizing a lab X-ray source, acquisition times for X-ray images increase significantly compared to using a synchrotron X-ray source. This is due to the decreased number of X-ray photons (i.e., X-ra ...

SBIR Department of Defense

4. A152-091: Innovative Motion Measurement Package (M2P) for Guided and Un-Guided Munitions

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Performance of future munitions are dependent upon the accurate estimation of the airframe’s angular motion, acceleration about each axis, velocity and roll position relative to up. The M2P will reside within the munition airframe and measure actual projectile/airframe properties, which can be used by the munitions guidance package and/or fuzing system. The M2P technology can utilize conventiona ...

SBIR ArmyDepartment of Defense

5. A152-092: Enhanced Analysis for Pulsed Voltammetry Evaluation Tool / System for Improved Power Systems

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

In order to develop new high-performance batteries, fuel cells, and sensors, the electrochemical behavior of materials and devices need to be quantitatively assessed. This assessment (models and systems characterization) will help identify the performance of electrochemical systems leading to the development of significantly improved power sources. New electrochemical analysis tools will enable be ...

SBIR ArmyDepartment of Defense

6. A152-093: Techniques for Wire Recognition using mmW

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rotorcraft landing and takeoff is dangerous in environments where obstacles, particularly wires or power lines exist, and pilot vision is degraded by obscurants such as dust, smoke, fog, rain and snow. This SBIR would focus on a radar solution to detecting wires and power cables when landing in a visually degraded environment. Existing data for wires and power lines with millimeter wave radars pro ...

SBIR ArmyDepartment of Defense

7. SB152-002: Cortical Modem Systems Integration and Packaging

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

8. A152-095: Avian Vision Processing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Birds of prey, also known as raptors, are birds that hunt or feed on other animals. They are characterized by keen vision that allows them to detect prey during flight. Since vision is the most important sense for birds, and good eyesight is essential for safe flight, this group has a number of adaptations which give visual acuity superior to that of other vertebrate groups. The objective of this ...

SBIR ArmyDepartment of Defense

9. A152-096: Advanced Coordinated Control, Formation Flying for Nano-Satellite Applications

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The focus and priority of this topic is seeking innovative space-based remote sensor capabilities supporting all-weather, day-night imaging capability. Preliminary research assessments highlight the availability of next generation device/component technologies and outline novel approaches for creating flotillas, swarms, and/or formations of nano-satellites with multi-faceted functions and sensor c ...

SBIR ArmyDepartment of Defense

10. SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

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